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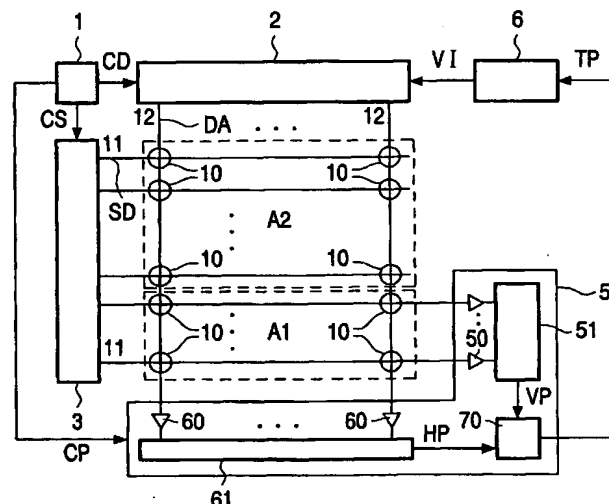
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— as to applicant's entitlement to apply for and be granted a patent (Rule 4.17(ii)) for the following designations AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BY, BZ, CA,

[Continued on next page]

(54) Title: TOUCH SENSING DISPLAY



(57) Abstract: A touch sensitive matrix display senses touch input during a sense period (TS) in a separate sense area (A1) which is selected to be non-overlapping with a display area (A2) in which information is displayed dependent on the touch position which is sensed in the sense area (A1). During the sense period (TS), the sense area (A1) is not addressed. The non-address period of time (TR) occurring between two successive sense area addressing periods (TA2) of the sense area (A1) lasts at least as long as, but preferably substantially longer than, the display area address period (TA1,i) required to address the complete display area (A2). The data displayed in the sense area (A1) is refreshed by addressing the sense area (A1) during the sense area address periods (TA2) in-between the sense periods (TS). The data displayed in the sense area (A1) will not be disturbed by the sensing and will be present between two successive sense area addressing periods (TA2, TA2') because the pixels 10 of the matrix display have an optical state which, when not addressed, is maintained longer than the non-address period (TR).



CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, UZ, VC, VN, YU, ZA, ZM, ZW, ARIPO patent (GH, GM, KE, LS, MW, MZ, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian patent (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European patent (AT, BE, BG, CH, CY, CZ, DE,

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# INTERNATIONAL SEARCH REPORT

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A. CLASSIFICATION OF SUBJECT MATTER  
IPC 7 G06F3/033

According to International Patent Classification (IPC) or to both national classification and IPC

## B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)  
IPC 7 G06F

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

## C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
A	US 5 159 323 A (MASE AKIRA ET AL) 27 October 1992 (1992-10-27) the whole document	1,2,8,9
A	EP 0 509 589 A (PHILIPS ELECTRONICS UK LTD ; PHILIPS NV (NL)) 21 October 1992 (1992-10-21) column 5, line 23 - column 6, line 55 column 8, line 54 - column 11, line 6; figures 1-3	1,2,5,8, 9
A	EP 0 618 527 A (AT & T GLOBAL INF SOLUTION) 5 October 1994 (1994-10-05) column 3, line 24 - column 4, line 7; figure 7	1,2,4,8, 9

☐ Further documents are listed in the continuation of box C.

☒ Patent family members are listed in annex.

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# INTERNATIONAL SEARCH REPORT

Information on patent family members

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